BOLOTOV, V.V.; GERASIMOV, V.H.; GOFMAN, I.V.; KAMENSKIY, M.D.;

MELENTYEV, L.A.; PRINTSEV, A.A.; USOV, S.V.; SHEGLOV, A.P.

Suren Mikolasvich Mikogosov; obituary. Elektrichestvo no.10:
(MIRA 14:9)

93 0 '60.

(Nikogosov, Suren Mikolaevich, 1900-1960)

USOV, S.V., doktor tekhn.nauk

Meeting of committee No.13 of the International Conference on Large Electric Networks held in 1961. Elek. sta. 32 no.12:88-90 D'61.

(Electric power distribution--Congresses)

SYROMTATNIKOV, I.A.; NEKRASOV, A.M.; LEBEDEV, A.A.; KOSTENKO, M.P.;
NETMAN, L.R.; VASIL'YEV, D.V.; KAMENSKIY, M.D.; USOV, S.V.;
POSSE, A.V.; UL'YANOV, S.A.; FAZYLOV, Kh.P.

Professor N.N. Shchedrin; on his seventieth birthday and fortieth anniversary of his educational work. Elektrichestvo no.1:94(MIRA 14:12)
95 Ja '62.

(Shchedrin, Nikolai Nikolaevich, 1891-)

USOV, S.V., prof.; PAVIOV, G.M., dotsent; SIABIKOV, V.A., dotsent

Computer for calculating the load distribution in electric power systems with hydroelectric power stations. Elektrichestvo no.3:24-28 Mr 162. (MIRA 15:2) (Interconnected electric utility systems)

BESSONOV, L.A.; DOMANSKIY, B.I.; DROZDOV, N.G.; D'YACHENKO, N.Kh.;

ZHEKULIN, L.A.; ZAYTSEV, I.A.; ZALESSKIY, A.M.; KAMENSKIY, M.D.;

KOSTENKO, M.P.; LEBEDEV, A.A.; LOMONOSOV, V.Yu.; HITKEVICH, A.V.;

SMIRNOV, V.S.; TOLSTOV, Yu.G.; USOV, S.V.; SHRAMKOV, Ye.G.

L.R. Neiman; on his 60th birthday and the 35th anniversary of his educational work. Elektrichestvo no.6:93-94 Je '62. (MIRA 15:6) (Neiman, Leonid Robertovich, 1902-)

KOSTENKO, M.V.; NEYMAN, L.R.; MELENT'YEV, L.A.; KAMENSKIY, M.D.; BOLOTOV, V.V.; ZALESSKIY, A.M.; USOV, S.V.; SHCHEDRIN, N.N.; GERASIMOV, V.N.; DUBINSKIY, L.A.

B.L.Aizenberg; on his 60th birthday. Elektrichestvo no.11:94 (MIRA 15:11)

(Aizenberg, Boris L'vovich, 1902-)

MIKHALEV, Boris Nikolayevich; KORYAKIN, Yu.I., retsenzent; USOV, S.V., red.

[Atomic power stations; abstract of lectures for students of hydrotechnical faculties majoring in hydraulic power engineering] Atomye elektricheskie stantsii; konspekt lektsii dlia studentov gidroenergeticheskoi spetsial nosti gidrotekhnicheskogo fakul'teta. Leningrad, Leningr. politekhn. in-t, 1963. 51 p. (MIRA 18:4)

USOV, S.V. (Leningrad); PAVLOV, G.M. (Leningrad); KANTAN, V.V. (Leningrad)

Theoretical premises for optimalizing the operation of an electric power system using electronic analog computers. Izv. AN SSSR. Energ. i transp. no.4:434-442 Jl-Ag '63. (MIRA 16:11)

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USOV, S.V. (Leningrad); PAVLOV, G.M. (Leningrad); KANTAN, V.V. (Leningrad)

Solution of a problem on the optimum distribution of loads using analog computers. Isv. AN SSSR. Energ. i transp. no.6: 667-674 N-D 163. (MIRA 17:1)

KOSTENKO, M.P.; MEIENT'YEV, L.A.; KAMENSKIY, M.D.; ZALESSKIY, A.M.; BRIL',
R.Ya.; GCNSIKOV, A.S.; SAVASHINSKAYA, V.I.; DOVGAL', S.A.; KOVALEV,
N.N.; BOLOTOV, V.V.; USOV, S.V.; GERASIMOV, V.N.; SIVAKOV, Ye.R.;
AVRUKH, A.Ya.; STARIKOV, V.G.; MIKHALEVICH, A.I.

I.V. Gofman; obituary. Elek. sta. 34 no.6:95 Je '63. (MIRA 16:9)

(Gofman, Igor' Valentinovich, 1903-1963)

USOV, S. V.; SMIRNOV, K. A.; GORNSHTEYN, V. M.; SOVALOV, S. A.

"The Economic Principles Governing Power System Operation Schedules in the U.S.S.R."

Report submitted for Intl Conf on Large Electric Systems, 20th Biennial Session, Paris, 1-10 Jun 64.

GORNSHTEYN, V. M.; SMIRNOV, K. A.; SOVALOV, S. A.; USOV, S. V.

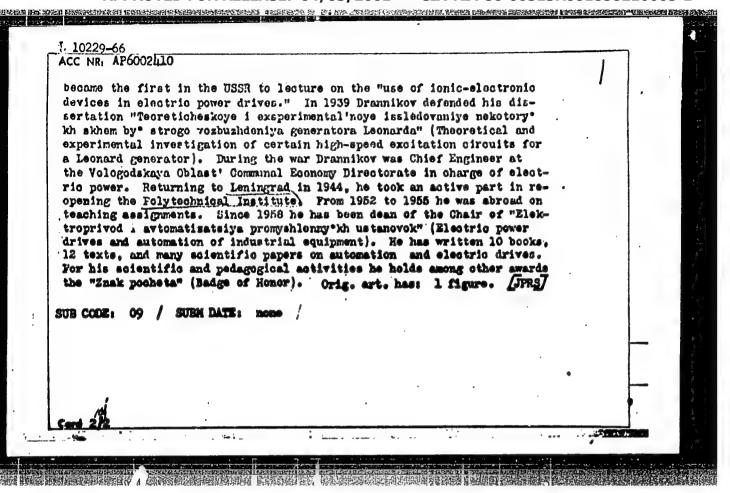
"The Economic Principles Governing Power System Operation Echedules in the USSR."

report submitted for 20th Biennial Sess, Intl Conf on Large Electric Systems, Paris, 1-10 Jun 64.

USOV, S.V., prof. (Leningrad); PAVLOV, C.M., kand. tekhn. nauk
(Leningrad); KANTAN, V.V., inzh. (Leningrad); PETROVA, S.S.,
inzh. (Leningrad); STEPANOV, B.N., inzh. (Leningrad)

Solution of a problem on optimum load distribution using the
ANRAN-1V computer. Elektrichestvo no.2:24-27 F '64..
(MIRA 17:3)

ACC NR: AP6002410	ur/0105/64/000/010/0087/0087	
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ORG: none TITIE: Professor V. G. Drannikov (60th birthday and 3 and pedagogical activity)		
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SOURCE: Elektrichestvo, no. 10, 1964, 87	engineering	
and desired personnel, steems		
TOPIC TAGS: electric engineering property was born in ABSTRACT: Vasiliy Gavrilovich Drannikov was born in ABSTRACT: Vasili	Serpukhov on 30 June	
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AYZENBERG, B.L.; ALFKSANDROV, G.N.; GRIBOV, A.N.; GRUZDEV, I.A.; DOMANSKIY, B.I.; DUBINSKIY, L.A.; ZALESSKIY, A.M.; KOSTENKO, M.P.; KOSTENKO, M.V.; LEVINSHTEYN, M.L.; MIKIRTICHEV, A.A.; MIKHAYLOVA, V.I.; NEYMAN, L.R.; RUZIN, Ya.L.; SMIRNOV, V.S.; STEFANOV, K.S.; USOV, S.V.; KHOEERG, V.A.; SHCHERBACHEV, O.V.

Professor M.D.Kamenskii; on his 80th birthday. Elektrichestvo no.7: 92-93 J1 165. (MIRA 18:7)

Card 1/2

SOURCE CODE: UR/0143/65/000/007/0130/0131 ACC NR: AP6012968 AUTHOR: Smirnov, V. S.; Kostenko, M. P.; Neyman, L. R.; Kostenko, M. V.; Domanskiy, B. I.; Zalesskiy, A. M.; Usov, S. V.; Ayzenberg, B. L.; Dubinskiy, L. A.; Aleksandrov, G. N.; Gribov, A. N.; Gruzdev, I. A.; Levinshteyn, M. L.; Mikirtichev, A. A.; Mikhaylova, V. I.; Ruzin, Ya. L.; Stefanov, K. S.; Khoberg, V. A.; Shcherbachev, O. V. ORG: none TITLE: Honoring the 80th birthday of Mikhail Davidovich Kamenskiy SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Energetika, no. 7, 1965, 130-131 TOPIC TAGS: electric power engineering, electric engineering personnel, hydroelectric power plant, thermoelectric power plant on 19 April 1965 Prof. Dr. Techn. Soi. Mikhail Davidovich Kamenskiy celebrated his 80th birthday and the 55th anniversary of his active work as a power expert. Mikhail Davidovich is a 1909 graduate of the Petersburg Polytechnic Institute - since his graduation he has been associated with this institue, now renamed Leningrad Polytechnic Institute, as an instructor. He is a major scientist and specialist in electric power grids and systems. He has been a major contributor to the establishment of the Leningrad Power Grid and various large thermal and hydro-

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ACC NR: AP6012968

electric power stations and an active participant in the design and construction of high- and low-voltage power systems in many cities of the Soviet Union. During the Siege of Leningrad in World War II he was a member of the Municipal Party Defense Committee. Since the war Mikhail Davidovich has been head of the Chair of Electric Power Grids and Systems at the Leningrad Polytechnic Institute and has been working on the methods of calculating the economic regimes of power system operation and on the problems of the present-day development of urban power systems. M.D. Kamenskiy has published more than 80 works, including both original studies as well as textbooks that are popular in the Soviet Union and abroad. He is the chairman of the Section on Power Systems and Grids under the Leningrad Division of the Scientific and Technical Division of the Power Industry and organizer of and participant in many scientific-technical conferences and meetings. His merits as an educator of a new school of Soviet power engineers are equally large. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 10 / SUBM DATE: none

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"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858210005-1

L 39026-66 ACC NR: AP6029600 SOURCE CODE: UR/0281/66/000/003/0052/0059 Usov, S. V. (Leningrad); Chernovets, A. K. (Leningrad); Kozulin, V. S. (Leningrad) ORG: none TITLE: Mutual effect between the A.C. winding and the control winding of a reactor with rotating magnetic field SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 3, 1966, 52-59 TOPIC TAGS: rotating magnetic field, alternating current ABSTRACT: The article describes some characteristics of a controlled reactor with rotating magnetic field, as designed by M. S. LIBKIND. The basic feature of this dusign is that the control winding is distributed in the same slots with the three-phase winding and there is no removable rotor; the magnetic structure consists of a laminated slotted member inside and a stator yoke outside. The total alternating EMF induced in the control winding is found by adding up the fundamental and all harmonics except the third and its multiples (which are zero). Additional copper losses in the control coils located in common slots are due to slot leakage and resulting eddy currents in the conductors; these losses are calculated under the usual simplifying assumptions. As to the A. C. winding, special consideration is given here to the even harmonics: while the 6th, 12th ... harmonics vanish, it appears not possible to eliminate completely any other even harmonic due to magnetization. The article deals also with reactor power, which is expressed as a function of loading, reactor dimensions and the number of poles. It is shown, on basis of the foregoing analysis, how the number of poles influences the performance or the design and what role the control winding plays in this relation. Orig. art. has 5 figures, 7 formulas and 1 table. [JPRS: 37,061]
SUB CODF: 20 / SUBM DATE: 22Jan66 / ORIG REF: 002 SUBM DATE: 22Jan66 / ORIG REF: Card 1/1/1/16

ACC NR: AP7009567

SOURCE CODE: UR/0281/66/000/006/0012/0018

AUTHOR: Usov, S. V. (Leningrad); Chernovets, A. K. (Leningrad); Kozulin, V. S. (Leningrad)

ORG: none

TITLE: Optimal range of control of controllable reactor with rotating

magnetic field

SOURCE: AN SSSR: Izvestiya. Energetika i transport, no. 6, 1966, 12-18

TOPIC TAGS: nuclear reactor, nuclear reactor core

SUB CODE: 18

ARSTRACT: An analysis of problems connected with selection of the control range of a controllable reactor designed for installation in power production systems. It is discovered that with any given range of control, capital investiments and operating expenses are 5 to 10% higher for a reactor with a removable core. The range of control economically most suitable varios depending on whether the reactor is used in conjunction with a static compensating device (condenser) or separately. The economic indicators of a controlled reactor with oil cooling are considerably better than for a reactor with air: cooling. Calculation show that the cost of copper, iron and insulation as well as losses of copper increase for a controllable reactor with a rotating field, while only the loss of steel decreases. Tables are presented on the losses, capital investment and operating expenses required for a controllable reactor. Orig. art. has: 8 formulas, 4 figures and 1 table. JPRS: 40,102/

Card 1/1

UDC: 621.316.935:621.3.072.32 0430 10 93

usov, u. N.

Obolenzev, R. D., and <u>Usov, U. N.-</u> "On the Additivity of Conversion of the Binary Mixtures of Aliphatic Hydrocarbons by their aromatization over the Chrome Catalyst. II" (p. 906)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1947, Vol. 17, No. 5

USOV. VLADIMIR, powar (L'vov); VOITENKO, N.; BARKOV, P.; SUKHODEYEV, L.

Readers' letters. Obshchestv.pit. no.10:45-47 0 159
(MIRA 13:4)

1.Upravlyayushchiy Ukrdorrestoranom (for Voytenko). 2. Powar chaynoy No.3 Kurskoge tresta stolovyth (for Barkov). 3. Instruktor otdela obshchestvennogo pitaniya Kuybyshevskogo oblpotrebecyuza (for Sukhodeyev).

(Gookery)

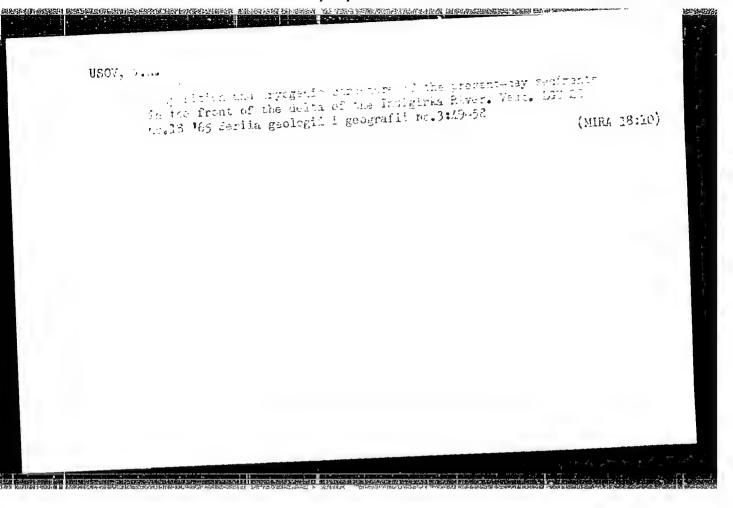
USOV, V.; MURASHEV, G., red.; SMIRIOVA, A., tekhn.red.

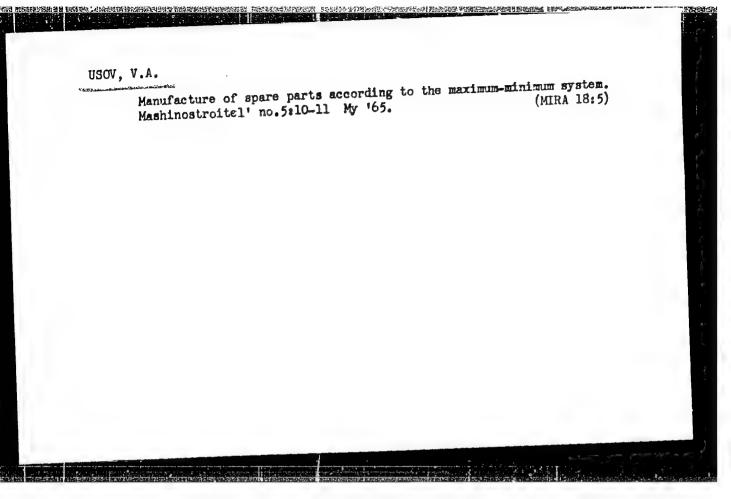
IAroslavna. IAroslavskoe knizhnoe izd-vo, 1963. 98 p.
(MIRA 17:3)

FREYMANIS, Ya.F. [Freimanis, J.]; USOV, V.A.; VANAG, G.Ya. [Vanags, G.] [deceased]

Di and polyketone imines. Part 16: Interaction of 2-phenyl,3-indandione with certain aromatic diamines. Zhur. org. khim. 1 no.9:1646-1653 S 165. (MIRA 18:12)

1. Institut organicheskogo sinteza AN Latviyskoy SSR. Submitted June 29, 1964.

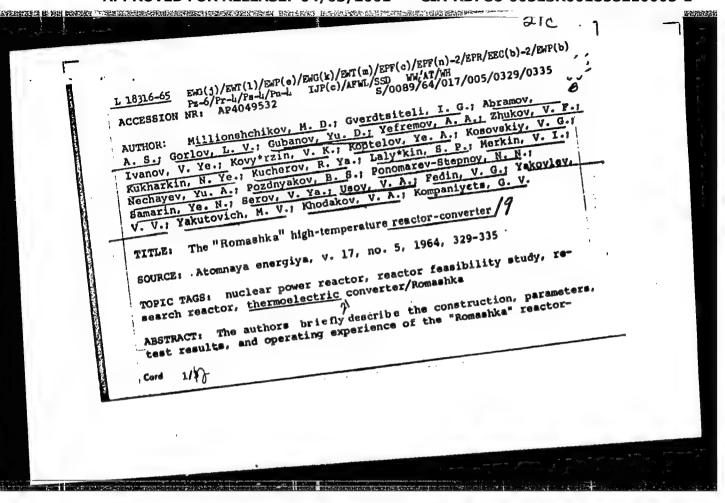




USOV, V.A.

"The Most Important Problems Involved in Growing Early Potatoes Under the Conditions in Vologodskaya Oblast." Cand Agr Sci, Leningrad Agricultural Inst, Leningrad, 1954. (RZhBiol, No 8, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSE ligher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55



"APPROVED FOR RELEASE: 04/03/2001

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1. 18316-65 ACCESSION NR: AP4049532

converter unit, which has been in operation at the Kurchatov Atomic Energy Institute since August 1964. The fuel used is uranium dicarbide enriched to 90% U²³⁵. Graphite and beryllium are used as reflectors. Electricity is generated by silicon-germanium semiconductor thermocouples distributed on the outer surface of the reflector and connected in four groups which can be connected in series or in parallel. The temperatures of the active zone and outer surface are 1770 and 1000C, respectively. The power ratings are 0.50-0.80 kW electric and 40 kW thermal, the maximum current (parallal 0.80 kW electric and 40 kW thermal, the maximum current (parallal connection) is 88 Å, the neutron flux is 10^{13} neut/cm² sec in the center of the active zone and 7 x 10^{12} on its boundary. The reactor has a negative temperature reactivity coefficient. The equipment has high inherent stability and requires no external regulator, and little change was observed in the thermocouple properties after 2500 hours of operation. Tests on the equipment parameters are continuing and the results are being analyzed for use in future designs. Orig. art. has: 8 figures and 1 formula.

2/3 Cord

BRICHKIN, Aleksandr Vasil yevich; NIKIFOROV, Ivan Mikhaylovich;
SKALKIN, B.P., dots., retsenzent; SLASTUNOV, V.G., gornyy
inzh., retsenzent; KUZNETSOV, I.P., dots., kand. tekhn.
nauk, retsenzent; YARTSEV, V.A., dots., kand. tekhn. nauk,
retsenzent; KULIKOV, V.P., assistent, retsenzent; SINITSIN,
I.A., assistent, retsenzent; USOV, V.I., assistent, retsenzent; BUBOK, K.G., otv. red.; PARTSEVSKIY, V.N., red.izd-va;
SABITOV, A., tekhn. red.

[Safety measures in mines] Tekhnika bezopasnosti na rudnikakh.

Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961.

(MIRA 15°2)

1. Severo-Kavkazskiy gornometallurgicheskiy institut (for Skalkin, Slastunov). 2. Zaveduyushchiy kafedroy tekhmiki bezopasnosti i rudnichnoy ventilyatsii Sverdlovskogo gornogo instituta im. V.V.Vakhrusheva (for Kuznetsov). 3. Kafedra tekhniki bezopasnosti i rudnichnoy ventilyatsii Sverdlovskogo gornogo instituta im. V.V.Vakhrusheva (for Yartsev, Kulikov, Sinitsin, Usov).

(Mining engineering—Safety measures)

s/0119/63/000/005/0030/0031

ACCESSION NR: AP3000251

AUTHOB: Buryakov, G. A.; Usov, V. I.

TITLE: Controlling the furnaces with wandering maximum-temperature some

SOURCE: Priborostroyeniye

TOPIC TAGS: multipoint temperature controller

ABSTRACT: It is suggested that a number of primary temperature elements be placed along the path of possible wandering of the maximum-temperature sous. A two-position controller with 12 thermocouples is described. If the temperature in the furnace is lower than the set point, the heater is on. If at any of the 12 points the temperature exceeds the set point, the heater is turned off. Contact operations are described in detail. RSM-1 and RSM-3 24-V do relays and RPT-100 12-V ac relay are used in combination with a type EPP-09 potentiometer. Orig. art. has: 2 figures.

ASSOCIATION: none

DATE ACQ: 14Jan63

ACCESSION WR: AP3000251 SUB CODE: IE NO REF SOV: 000 OTHER: COO		3					, T.			-	i î
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BURYAKOV, G.A.; USOV, V.I.

Control of members having a shifting zone of maximum
temperature. Priborostroenie no.5:30-31 by '63.

(MIRA 16:8)

ACCESSION NR: AT4007048

\$/2598/63/000/010/0254/0261

THE PROPERTY AND THE PROPERTY OF THE PROPERTY

AUTHOR: Ostrenko, V. Ya.; Bogoyavlenskaya, N. V.; Bobrikov, L. D.; Akimova, Ye. P.; Usov, V. K.; Okhramovich, L. N.; Il'vovskaya, L. A.

TITLE: Development of a production process for AT-3 titanium alloy tubes

SOURCE: AN SSSR. institut metallurgii. Titan i yego splavy*, no. 10, 1963. issledovaniya titanovy*kh splavov, 254-261

TOPIC TAGS: titanium alloy, AT-3 titanium alloy, AT-3 alloy tube, tube rolling, hot rolling, cold rolling, AT-3 titanium alloy property, titanium aluminum chromium alloy, 1ron containing alloy, silicon containing alloy, boron containing alloy

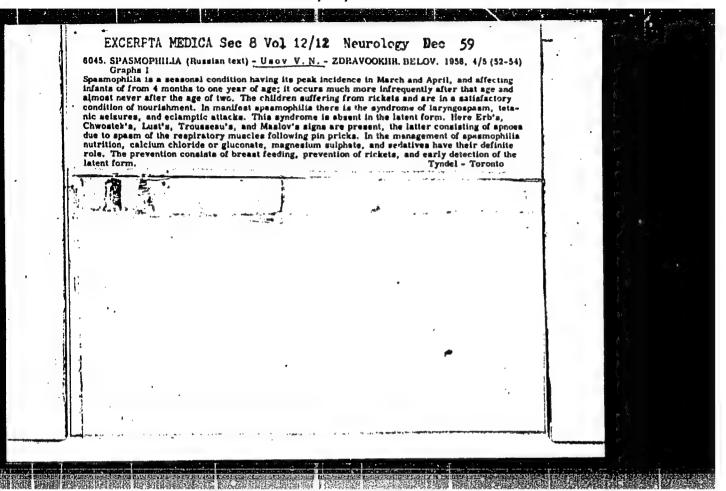
ABSTRACT: The effect of thermal treatment on the mechanical properties of AT-3 alloy and parameters affecting the cold and hot rolling of tubes of this alloy were investigated in the laboratories of the Ukrainskiy nauchno-issledovatel'skiy trubny*y institut (Ukrainian Scientific-Research Institute for Tubes) and the Nikopol'skiy yuzhnotrubny*y zavod (Southern Tube Plant, Nikopol). At temperatures of 800-900C the mechanical properties and hardness of AT-3 were markedly altered by hardening in water but essentially unchanged by cooling in air or in a kiln. This effect is explained by the fixation of the intermediate $\alpha + \beta$ structure during hardening in water. These alloys demonstrated high ductility in a wide range Card 1/2

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The problems involved	75-1125C). A maximum deformat tubes, while hot rolling of the are sticking of the metal to t ed film on the hot rolled tube. nical treatment, such as etching	These problems have been	
Im, and lubrication with ended procedures are disc SSOCIATION: Idstitut met	nical treatment, such as etching a mixture of castor oil and tal ussed. Orig. art. has: 6 figualized AN SSSR (Metallurgical DATE ACQ: 27Dec63	ires and 3 tables.	
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OSTRENKO, V.Ya.; BOGOYAVLENSKAYA, N.V.; BOBRIKOV, L.D.; AKIMOVA, Ye.P.; USOV, Y.K.; OKHRAMOVICH, L.N.; IL:YOVSKAYA, L.A.

Developing a technology for the production of AT-3 titanium alloy tubes. Titan i ego splavy no.10:254-261 '63. (MIRA 17:1)



BURAVLEV, Yu.M.; PEREPELKINA, M.A.; USOV, V.N.; USTINOVA, V.I.

Use of a rectified condensed spark for spectral analysis of alloys. Zav.lab. 29 no.8:1005-1006 '63. (MIRA 16:9)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov. (Alloys-Spectra) (Electric spark)

USOV, V.N.

S/762/61/000/000/029/029

AUTHORS: Morozov, Ye.I., Ronzhin, A.S., Prostov, I.A., Matveyev, V.S.,

Guravich, S. M., Didkovskiy, V. P., Yasinskiy, K.K., Usov, V.N.

Electroslag smelting of titanium ingots.

SOURCE: Titan v promyshlennosti; sbornik statey. Ed. by S.G.Glazunov.

Moscow, 1961, 314-326.

TEXT: The paper describes a method of electrosclag smelting of Ti ingots with desirable mechanical properties and with a surface that requires almost no machining prior to plastic working. The principal objective of the development is the smelting of flat ingots for the rolling of sheet material with uniform transverse distribution of rolling deformation (cylindrical ingote are deformed more greatly at the center; tensile stresses produce edge cracking on the resulting sheets). Several organizations collaborated with the Institute of Electric Welding imeni Ye.O. Paton in 1959 in adapting the splashless electroslag method of Ti smelting (3 electrodes) developed in 1958 to the smelting of slab ingots of up to 200x800x700 mm and 500 kg. Good mechanical properties and high electric-power utilization result from the improved current- and heat-flow uniformity of the arc established underneath the protective flux layer. Since 3, as well as one, electrodes can be employed, the 3 phases of an a.c. power supply can be utilized uniformly. The fused flux layer contributes to the formation of a singularly compact ingot structure. Flux must: (1) Not contain O; (2) have a m.p. close to that of the metal and be readily fusible; (3) have a high b.p.

"APPROVED FOR RELEASE: 04/03/2001

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Electroslag smelting of titanium ingots.

S/762/61/000/000/029/029

(not less than 2,000°C). Neutral-gas shielding above the flux is mandatory to avoid O reaction. Details of the experiments with various fluxes, which led to the adoption of CaF2 (brand " "(Ch)) and a purifying remelt of the flux in an induction furnace prior to use, are reported and tabulated. Comparison of BT (VT) -1, -3-1, and -5, OT4, and Ti-8Mn ingots obtained by the electroslag (ES) and vacuum arc (VA) methods. Differences between ES and VA ingots initially observed were found to be attributable to the use of pressed electrodes in the ES method; use of once-VA-melted ingots as starting electrodes in both ES and VA methods yielded BT (VT) and OT ingots of practically identical mechanical properties (described and tabulated). The mechanical properties of the Ti-8Mn were considerably improved by the ES method; this is attributed to the more uniform distribution of the high-vapor-pressure Mn in the ingot under the protection of the flux. The BT (VT) and OT alloys showed either increased strength or impaired notch toughness when smelted under a fluorspar flux, probably as a result of uncontrollable admixtures contained in the fluorspar. Furnace: The design of the 3-electrode furnace, with a crystallizer, electrode chamber, flux dispenser, electrode-advance mechanism, protective shield, and power transformer, is described and illustrated (cross-section, photos); its operation and process control are described in detail. A 500-kg ingot shows the result of deliberate manual delays in electrode advance in the form of nonuniformities (photo). Design criteria were obtained for future furnace designs. There are 6 figures, 3 tables, and 2 Russian-language Soviet references identified in footnotes. Card 2/2 ASSOCIATION: None given.

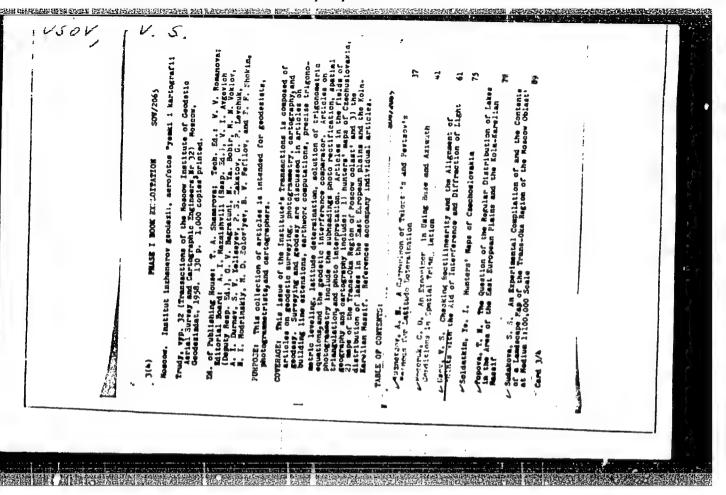
USOV, V. S., Ass't.

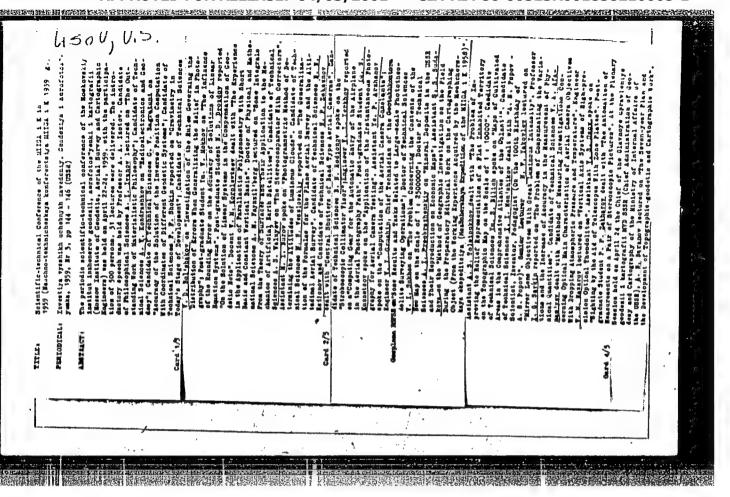
"On the Investigation of the Errors of the Focusing Devices of Telescopes"

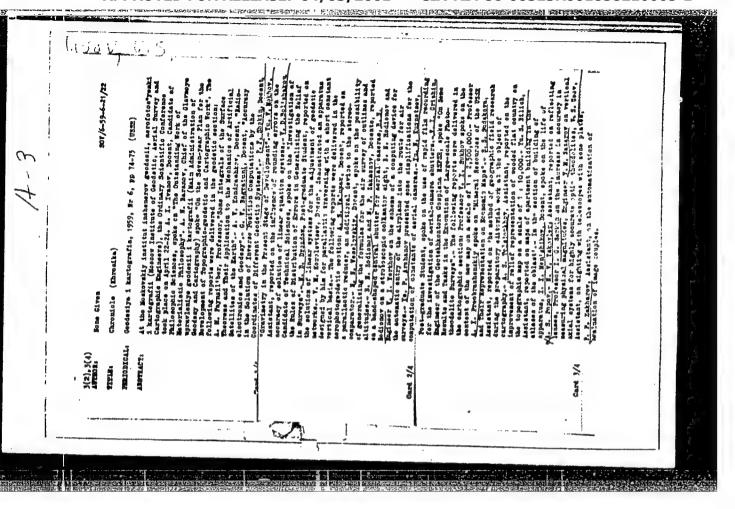
report presented at a Scientific-Technical Conference at Moscow Inst. of Geodesy, Aerial Photography and Cartography Engineers, 24-26 April 1958. (Geodeziya i kartografiya, no. 6, pp. 79-80, 1958)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858210005-1







BECTURALINE BUTTAPITATE ANGLES IN TOTALISE AND A METATERIC TOTAL BECTURATE ANALYSIS ANGLES AN

USOV, V.S. aspirant

Checking for straightness and alignment by the interference and diffraction of light. Trudy MIIGAIK no.32:61-73 58.

1. Kafedra priborostroyeniya hoskovskogo instituta inzhenerov geodesii, aerofotos"yezki i kartografii.

(Surveying-Industrial applications) (Diffraction)

(Interference (Light))

USOV, V.S., starahiy prepodavatel'

Using mirror systems for linear measurements by the method of autocollimation in a cone of rays. Izv. vys. ucheb. zav.; geod. i aerof. no.3:117-124 464. (MIRA 18:3)

1. Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii.

BELEVISOV, G.A.; KRASAVISEV, N.I.; MISECHEMICO, N.M.; SOLDATKIN, A.I.;
SHARIETICH, L.D.; Printmall uchastiye: PROLOV, S.Ya.;
SHEBTOPALOV, I.I.; PREHITOVA, Z.A.; STOLDUNSEN, L.Z.;
UBOV, V.J.; GLOTOV, P.L.; VOLKOVA, A.Ya.; ALDOKHINA, V.P.;
VOLGERM, Ya.T.; SHUMAKOV, I.S.; ZAPORCHETS, N.P.;
SHAPOSHMIKOV, V.P.; COMCHAROVA, M.Ya.

Investigation of blast furnace crediting using natural gas.
Stal' 22 no.6:483-486 Je '62. (MIRA 16:7)

(Blast furnaces—Equipment and supplies)

USOV, VLADIMER VASIL'YEVICH				1964
Metals		c. 163		
electric con	tacts			
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DUBIKAYTIS, Yu.V.; USOV, V.V.

Electrodes for electrocorticographic recording in the operating room. Fiziol. zhur. 44 no.3:256-257 Mr '58. (MIRA 11:4)

1. Nauchno-issledovatel'skiy neyrokhirurgicheskiy institut im. A.L. Polenova, Leningrad.

(BLECTROENCEPHALOGRAPHY, appearatus & instruments electrodes for recording in operating room (Rus)

BEKHTERNVA, N.P.; USOV, V.V.

Method for interrupted photo stimulation at the rhythm of natural brain potentials registered by electroencephalography. Fiziol. zhur. 46 no.1:108-111 Ja '60. (MIRA 13:5)

1. From the department of pathophysiology of the A.L. Polenov Neuro-Surgical Institute, Leningrad.
(ELECTROENCEPHALOGRAPHY)
(LIGHT)
(BRAIN physiol.)

ATOMA MARIA MEDARKEPATARIA ES ATARIS (ALBARIA MARIA (ARBARIA EL ESTA). EL ALBARIA (ARBARIA (ARBARIA MARIA ARBARIA ARBARIA

USOV, V.V.

Technic for a numerical evaluation of the features of the electroencephalogram. Figiol.zhur. 47 no.5:665-666 My '61. (MIRA 14:5)

1. From the Laboratory of Pathologic Physiology, A.L.Polenov Neurosurgical Institute, Leningrad.
(ELECTROENGEPHALOGRAPHY)

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

usov, v.v.

Optimization of the channel of information transmission in the adaptation of the visual analysor. Biofizika 7 no.3:328-332 '62. (MIRA 15:8)

1. Leningradskiy nauchno-issledovatel'skiy neyrokhirurgicheskiy institut imeni prof. A.L.Polenova.

(VISION)

USOV, V.V.

Statistic properties of the electroencephologram and the electrocorticogram. Biofizika 7 no.54679-632 462,

(MIRA 17:8)

1. Laningradskiy nauchno-isələdovatəliskiy neyrukhirurgicheskiy institut imeni prof. A.L. Polenova.

BEKHTEREVA, N.P.; USOV, V.V.

Some electroencephalographic problems in neurosurgical and neurological clinical practice. Fizicl. zhur. 48 no.4:378-383 Ap 162. (MIRA 15:6)

1. From the A.L. Polenov Neurosurgical Research Institute, Leningrad.

(ELECTROENCE PHALOGRAPHY) (NEUROLOGY)
(NERVOUS SYSTEM—SURGERY)

TROGREST TEET HELE TERMINETE ETTE FOLKE FOLKETENET LETTE ET FOLK DE FERNET PER TE FOLKE EN FOLKETE FOLKETE FOLKE

BEXHTEREVA N.P., prof.; USO', V.V., prof.

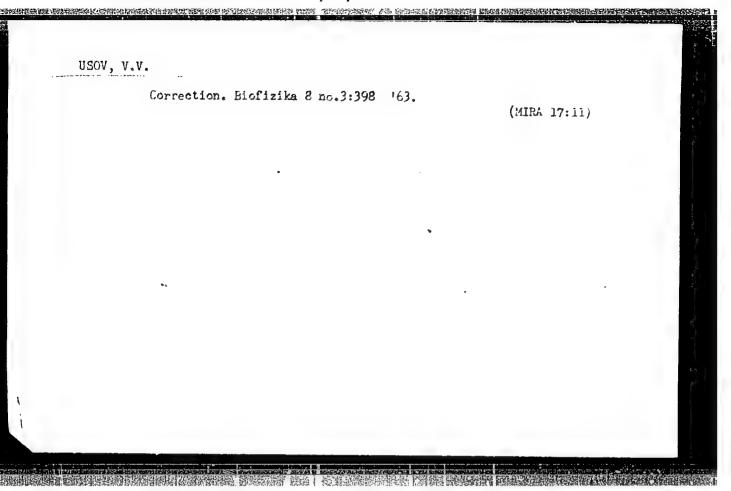
Some aspects of the selectron cograthy in medical scientific institutions of the R.S.F.S.R. Biul. Unb. mad. sov. 3 no.4x12-20 Jl-4g *62.

(MIRA 17x8)

KRATIN, Yuriy Gennadiyevich; BEKHTEREVA, Nataliya Petrovna; GUSEYNIKOV, Vladimir Ivanovich; KOZHEVNIKOV, Valeriy Aleksandrovich; SENICHENKOV, Boris Tikhonovich; USOV, Yladimir Vasil'yevich; KATINAS, G.S., red.izd-va; ZAMARAYEVA, R.A., tekhn. red.

2. 1995年 - 19

[Technique and methods of encephalography] Tekhnika i metodiki elektroentsefalografii. [By] IU.G.Kratin i dr. Moskva, Izd-vo AN SSSR, 1963. 312 p. (MIRA 16:10) (Encephalography)



USOV, V.V.

Unit for testing chain transmissions for wear. Trakt. i sel'-khozmash. 33 no.4:31-32 Ap '63. (MIRA 16:10)

USOV, Ya.A.: KOROBEYNIKOV, M.I.; MAMEDOV, K.I.

Sanitary protection of the frontiers in the territory of the Uzbek S.S.R. Zhur.mikrobiol., epid.i immun. 32 no.12:30-33 D '61. (MIRA 15:11)

1. Iz Uzbekskoy respublikanskoy protivochumnoy stantsii, Tashkent, Sanitarno-karantinnogo punkta Tashkentskogo aeroporta i Surgan-Dar'inskoy oblastnoy sanitarno-epidemiologicheskoy stantsii, Termez.

(UZBEKISTAN-QUARANTINE)

USOV, Ye.

Advantages are evident. Avt. transp. 43 no.8:20 Ag 165.

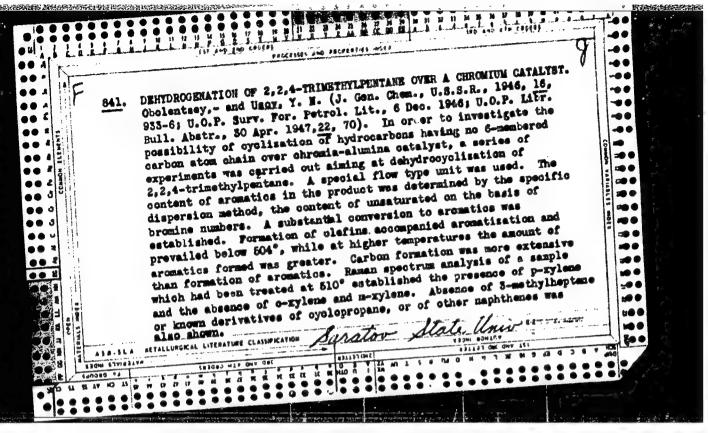
(MIRA 18:9)

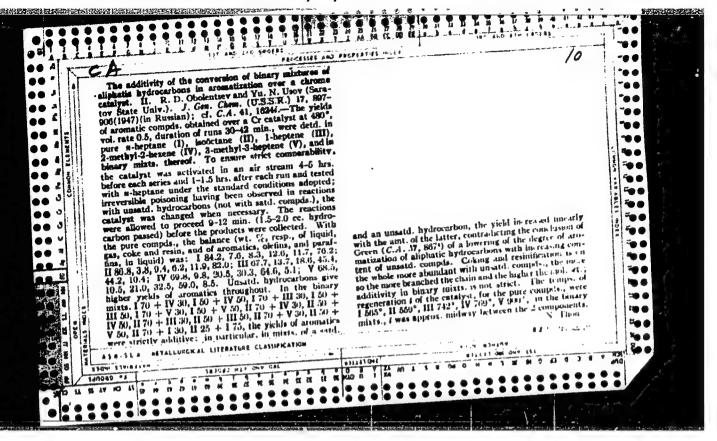
USOV, Yu., inzh.

Small winter mortar and concrete station. Sel'. stroi. no.9:4-5 S '62. (MIRA 15:10)

1. Proisvodstvenno-tekhnicheskiy otdel tresta Altaytselinstroy.

(Building-Cold weather conditions)
(Mortar) (Concrete mixers)





10

Cracking of athyl acetate on an aluminosilicate catalyst.

R. 1. (Bodentsev and Yu N User (N. G. Chernyshev N. Sareton).

State Univ. Saraton). Doblady Thad. Nanh N.S.S.R.
2015. Catalyzates of 4.

71. 489 92(1050). cl. C.1 42, 1570). Catalyzates of 4.

21. (Superinted out at (10)* with a rate of 1. AcOEt/1.

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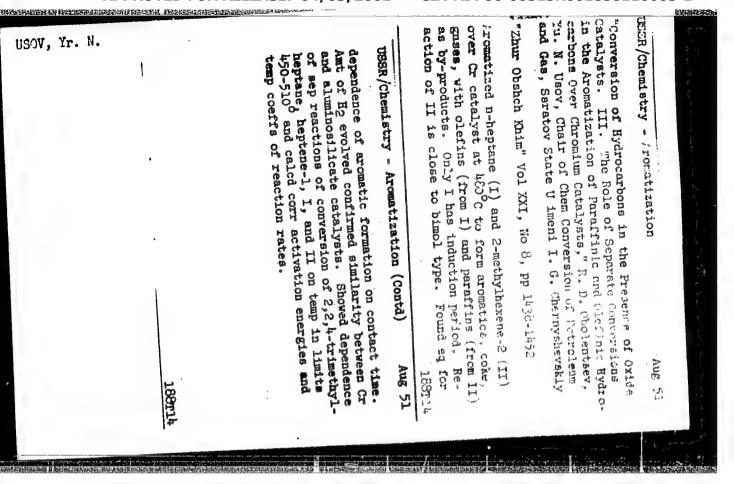
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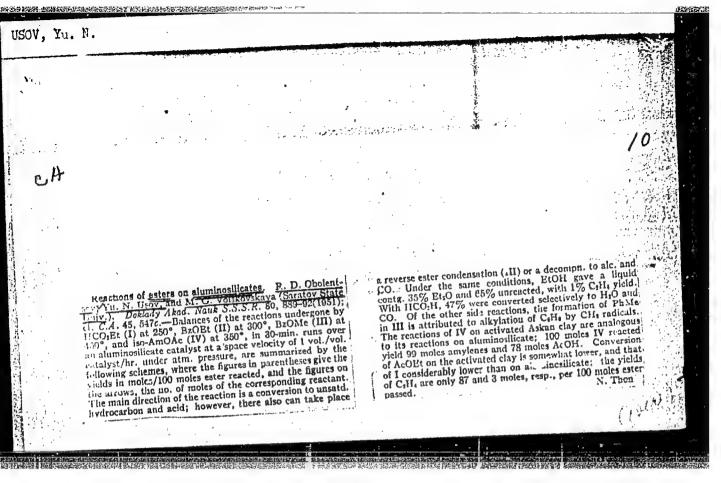
22. (Superinted out at (10

from which some of the gaseous profile ts, such as 100-C.H., are likely formed. O. and V. obtained the same profile to from AcOH as did Senderens with Al₂O₄ and aluminusticate, but the reported side products differed; S. obtained Colored to the reported side products differed; S. obtained CO₂ and no isn-C.H., while O. and V. found isn-C.H. and no VO it must be assumed that the decompt, of AcOH over Al₂O₅ decompt, of AcOH over Al₂O₅ decompt, to CO₅, Mr.CO₅ and H₂O₇ Recust was also cracked on aluminusulcate and on tay from Link lake. With 30% (by wt. of way) catalyst and a from Link lake. With 30% (by wt. of way) catalyst and a duration of 5 hrs. at 195 200° and 6 hrs. at 250° the solid from laminositicate, sapon, no. 88.9, acid no. 62.1, exter no. 26.8. Be no-silicate, sapon, no. 88.9, acid no. 62.1, exter no. 26.8. Be no-silicate, sapon, no. 88.9. No gas evolved during the reaction, 20.1, 84.0, 1, 63.68°. No gas evolved during the reaction, but in the atm. of the sapo, was found 69% CO₃ from hut in the atm. of the sapo, was found 69% CO₃ from the wax 68-85% decompd., probably in 2 steps: (1) contends of the acid and unsatd, hydrocarbon, and (2) deversion to acid and unsatd, hydrocarbon, and (2) devention. Many of the ales, of the wax stem to be dechydrocarbon. Many of the ales, of the wax extent to be dechydrated in the process.



"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858210005-1



WOON TU. H.; MAZONOKEY V. V.; and SPONTERRY R. D. Conversion of Hydrocarbons in the Presence of Oxide Catalysts. The Arometiz tion of 2, 2, L-Trimethyl Pentane Over Chronium and Molybde au

Cott lycts, Page 1/83, Shornik statey to obchchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leninger 1, 1063, 1063 16:0-1686.

Saratov State W, Chair of the Chemical Conversion of Petroleum and Gas

"APPROVED FOR RELEASE: 04/03/2001 CIA-RD

CIA-RDP86-00513R001858210005-1

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USSR/Chemistry USOV, YU.N

Card 1/1

: Pub. 41-15/18

Author

: Obolontsev, R. D.; Rozhdestvenskiy, V. P.; Yen'kov, Yu. V. and

Usov. Yu. N.; Sazatov

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Title

: Obtaining hydrogen by the catalytic conversion of natural gas with

water vapor

Periodical

: Izv. AN SSSR. Otd. tekh. nauk 8, 133-146, Aug 1954

Abstract

: Investigates manufacture of hydrogen by means of catalytic conversion of natural gas with water vapor. Studies kinetic laws of methane (natural gas) conversion process realizable on laboratory equipment of the flow type in the presence of typical industrial nickel catalyst. Selects optimum procedure, on basis of laboratory data, for industrial equipment. Diagram; tables; graphs. Thirty-

one references; 23 USSR.

Institution

: Saratov State University imeni N. G. Chernyshevskiy, Bashkir

Branch, Academy of Sciences USSR

Submitted

: August 7, 1954

CHIEFE WAS TO BE TO SELECT THE SE

USSR/Chemistry - Condensation

Card 1/1 Prio. 151 - 12/38

Authors

: Obolentsev, R. D.; Usov, Yu. N.; and En'kov, Yu. V.

Title

: Condensation of aniline with glycerin, paraldehyde and acetylene over Al2- $(SiO_3)_3$

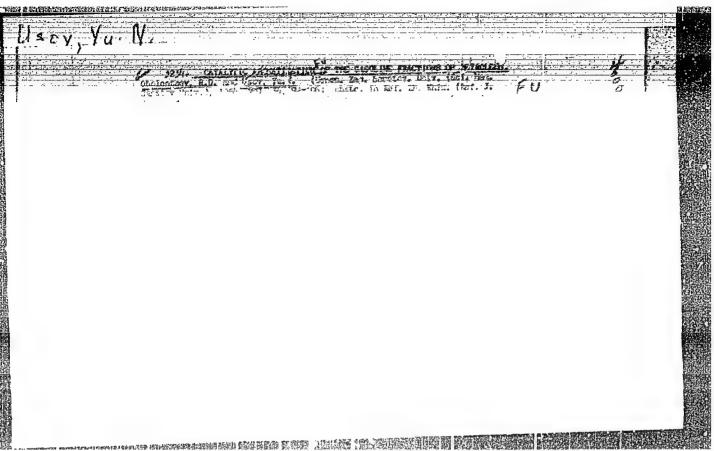
Periodical : Zhur. ob. khim. 24/2, 252-255, Feb 1954

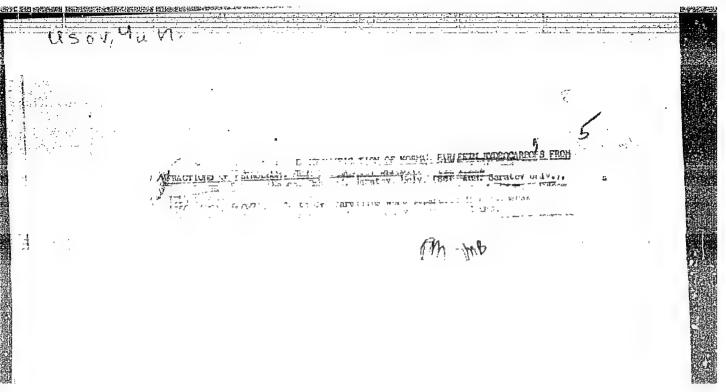
Abstract

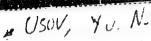
: The principle possibility for direct synthesis of quinoline, quinaldine, and ethylaniline through the condensation of anline with glycerin, paraldehyde and acetylene in vapor phase over an aluminum silicate catalyst, is discussed. The catalytic effect of Al2(SiO3)3 in above mentioned synthesis was found to be analogous to the catalytic effect of Al₂O₃. It was established that Al₂(SiO₃), causes the dehydration of the glycerin into acrolein, and the condensation of the aniline with glycerin or paraldehyde which is followed by the separation of the hydrogen and the formation of intermediate products - acrolein or crotonaldehyde. The mechanism of condensation over Al2(SiO3)3 is explained. Thirteen references: 12-USSR and 1-German (1904-1951). Table; graph.

Institution: The N. G. Chernishevskiy State University, Saratov

Submitted September 16, 1953







USSR/Chemical Technology. Chemical Froducts and Their Application -- Treatment of natural gases and petroleum. Motor fuels. Lubricants.

Abs Jour: Ref Zhur-Khimiya, No 3, 1987, 9338

Author : Rozhdestvenskiy, V. P., En'kov, Yu. V., and Usov,

Yu. Ne

Saratov University The Chemical Utilization of Hydrocarbon Gases (A Inst

Contribution to Research on the Production of Title

Hydrogon from Natural Gus)

Nauch, ezhegodnik za 1954 g Saratov, 1955, Orig Pub:

566-568

A brief presentation of basic results from laboratory work on the production of hydrogen by the Abstract: reaction of Saratov natural gas and other CH4containing gases over a No 1 N1 catalyst at temperatures of 550-800° using steam: gas ratios of 2: 1 and 3: 1 and space velocities of 500-17,000

USSR/Chemical Technology. Chemical Products and Their I-14
Application -- Treatment of natural gases and

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petroleum. Motor fuels. Lubricants.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 9338

Abstract: volumes per volume of catalyst per hour; the

work was undertaken for the purpose of establishing operating conditions for the industrial-scale conversion of Saratov natural gas with yields of 97.8-98.5% hydrogen at the Saratov hydrogenation plant. Results from preliminary experiments on the conversion of propane are also

reported.

Card 2/2

USOV, Yu.N.; SIDOROVA, N.V.

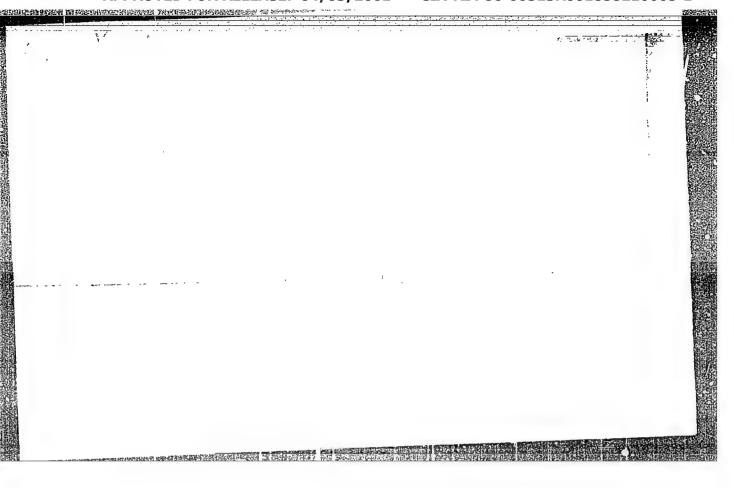
Conversions of hydrocarbons in the presence of exide catalysts.

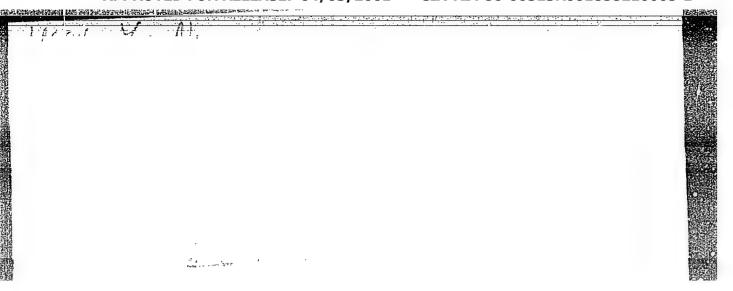
Part 7. Arematisation of binary alkane-arene mixtures over a chremium catalyst. Zhur.eb.khim. 25 no.9:1702-1704 S '55.

(MIRA 9:2)

1. Saratevskiy gesudarstvennyy universitet.

(Paraffins) (Arematisation)





USOV. YU.N.; SKVORTSOVA, Ye.V.; KUVSHINOVA, N.I.; YELOVATSKAYA, L.A.

Catalytic dehydration of isopentens to isoprens. Zhur.ob.khim. 27 no.10:2721-2725 0 '57. (MIRA 11:4)

1. Saratovskiy gosudarstvennyy universitet.
(Isopentene) (Isoprene) (Dehydration)

S/081/61/000/005/015/024 B101/B220

AUTHORS:

Usov, Yu. N., Skvortsova, Ye. V.

TITLE:

The problem of aromatization of n-heptane and n-octane on

the molybdenum catalyst

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 5, 1961, 535, abstract 5M177 (5M177) ("Uch zap. Saratovsk. un-t", 1959, 71, 167-174)

TEXT: Reference is made to the results of a comparative kinetic study of the aromatization of n-heptane at 500 to 550°C, and of n-octane at 460 to 520°C on a commercial molybdenum catalyst used for hydroforming and containing 8 % of MoO3. The tests were made in a continuous laboratory installation under atmospheric pressure and with volume rates of the initial material of 0.3 to 2.2 hr 1. For n-heptane and n-octane, the experiments gave yields in aromatic hydrocarbons of 5-27 % (calculated with respect to n-alkane passed through), and 7 to 40 % for a degree of conversion of 20 to 70 % and 13 to 70 %, respectively. In order to find out the primary reactions of conversion, the yield of individual products

Card 1/2

S/081/61/000/005/015/024 The problem of aromatization of n-heptane... B101/B220

(aromatic hydrocarbons, olefins, gas, coke) was determined in per cent of n-alkane converted; this was done by extrapolating the curves yield - degree of conversion of n-alkane to the zero degree of conversion. It was found that the primary conversion of n-alkanes develops in three directions; dehydrogenation to olefins, dehydrocyclization and formation of coke, the latter two reactions prevailing. The yield in aromatic hydrocarbons, olefins, gas, and coke was found to be dependent on the temperature at different volume rates of the initial material. For the conversion of n-heptane at 500 to 550°C and of n-octane at 460 to 520°C, the apparent activation energies were determined for the aromatization reaction (21,300 and 20,360 kcal/mole, respectively) and for the "summary dehydrogenation" (18,480 and 16,650 kcal/mole). [Abstracter's note: Complete translation.]

Card 2/2

USOV, Yu.N.; SKVORTSOVA, Ye.V.

Synthesis of 7,8-dimethyltetradecane. Uch.zap. SGU 75:53-55
'62.

(MIRA 17'3)

USCV, Yu.N.; KUVSHINOVA, N.I.; IVANOVA, S.M.

Arcmatization of binary alkane-arene mixtures on a platimum catalyst, Neftekhimiia 2 no.2:150-153 Mr-Ap '62. (MIRA 15:6)

1. Saratovskiy gosudarstvennyy universitet imeni N.G.Chernyshevskogo kafedra tekhnichoskoy khimii i Nauchno-issledovateliskiy institut khimii.

(Hydrocarbons) (Aromatization)

USOV, Yu.N.; KUVSHINOVA, N.I.; IVANOVA, S.M.

Aromatization of binary alkane-cyclane mixtures on a platinum catalyst. Neftekhimiia 2 no.5:666-669 S-0 '62. (MIRA 16:1)

1. Saratovskiy gosudarstvennyy universitet imeni N.G.Chernyshevskogo.
(Hydrocarbons) (Aromatization)

37851 \$/080/62/035/005/014/015 D247/D307

15.9203

AUTHORS:

Usov, Yu. N., Skvortsova, Ye. V., Vyshemirskiy, V. S., Alferova, G. V., Klyushnikova, G. G. and Smirnova,

N.S.

TITLE:

Polymerization of the butane-butene fraction of crack-

ing gases on a phosphoric acid film catalyst

PERIODICAL:

Zhurnal prikladnoy khimii, v. 35, no. 5, 1962,

1148-1150

TEXT: Various carriers for films of phosphoric acid, based on natural silica, were investigated. The film catalysts were prepared directly on the base of ground quartz of sands treated with HF. The reaction was carried out under constant flow conditions. An increase in pressure from atmospheric to 40 - 50 atm was found to result in lower efficiency of the polymerization process. A series of coarse-grained sands were also prepared as carriers to investigate the effects of impurities and of specific grain surfaces. Results, expressed as the yield of diisobutylene polymer as a persults, expressed as the yield of diisobutylene polymer as a persults.

Card 1/2

HEREIGEN HEREIGENEUTHEREIGEN HEREIGEN VERNEUTHEREIGEN ALTGERFTELN, BERCHLEREIGEN WERE HER REIGHEREIGEN HEREIGEN BEFEHREIGEN.

S/080/62/035/005/014/015 D247/D307

Polymerization of the ...

centage of the butenes present and as grams per liter of the carrier per hour, are given for a series of carriers for the film catalyst and for various times for the reaction. Optimum conditions for the process were found to be (at atmospheric pressure): a temperature of 175 - 185°C, an input rate of 75 hour-1 for the reactants and a periodical addition of fresh phosphoric acid for the catalyst at the rate of 0.5 - 0.7% of the original quantity per hour. After working for 50 hours under these conditions, the activity and yields using films on quartz became comparable with those obtained with the industrial catalyst (phosphoric acid on kieselghur). Sand- or quartz-based catalysts were easier to regenerate by aqueous washing and air or steam and air blowing than the industrial catalyst. Acid-resistant steel used as a reactor vessel did not effect the reaction. There are 2 figures.

ABSOCIATION: Saratovskiy gosudarstvennyy universitet imeni N. G.

Chernyshevskogo (Saratov State University imeni N. G.

Chernyshevskiy)

_SUBMITTED: April 10, 1961

Card 2/2

USOV, Yu.N.; MARKUSHINA, I.A.

Possibility of producing ceresin and structural bitumen from paraffinic deposits of the Saratov oil fields. Uch.zap. SGU 75:55-57 '62. (MIRA 17:3)

AND PROPERTY I LEGAL CONTROL OF THE CONTROL OF THE

USOV, Yu.N.; METTSEL', N.G.

Conversions of n-hexadecane over a molybdenum catalyst. Uch. zap. SGU 75:57-60 '62. (MIRA 17:3)

USOV, Yn.H.; KUVSHINOVA, N.I.

Conversions of 2,2,4-trimethylpentane and n.octane on a platinum catalyst. Kin.i kat. 3 no.6:931-936 N-D '62. (MIRA 15:12)

1. Saratovskiy gosudarstvennyy universitet imeni N.G. Chernyshevskogo. (Octane)

(Pentane)

(Platinum catalysts)

USOV, Yu.N.; SKVCRTSOVA, Ye.V.; KLYUSHNIKOVA, G.G.

Dehydrogenation of methylcyclehexane on alumina-chromia and alumina-molybdenum oxide catalysts. Neftekhimiia 3 no.3:320-325 My-Je 163. (MIRA 16:9)

1. Saratovskiy gosudarstvennyy universitet imeni Chernyshevskogo. (Cyclohexane) (Duhydrogenation) (Catalysts)

USOV, Yu.N.; SKVORTSOVA, Ye.V.; YELOVATSKAYA, L.A.; IVANOVA, S.M.;
VAYSTUB, T.G.; ETROGANOVA, N.V.

Investigating the chemical composition of gas and gas condensate of the Stepnovskoye field. Izv. vys. ucheb. zav.; neft' i gaz 7 no.3:55-58 '64. (MIRA 17:6)

1. Saratovskiy gosudarstvennyy universitet imeni N.G. Chernyshevskogo.

USOV, Yu.N.; KUVSHINOVA, N.I.; SHESTOVA, L.S.

Kinetics of the dehydrocyclization of n-heptane and n-octane on an aluminum-platinum catalyst. Neftekhimiia 4 no.5:700-706 S-0 164. (MIRA 18:1)

1. Saratovskiy gosudarstvennyy universitet imeni N.G.Chernyshevskogo i Nauchno-issledovatel'skiy institut khimii.

USOV, Yu.N.; SKVORTSOVA, Ye.V.; ALFEROVA, G.V.; YELOVATSKAYA, L.A.

Catalytic reforming of Stephovskiy gas-condensate fractions.

Izv. vys. ucheb. zav.; neft! i gaz 7 no.5:59-63 *64. (Hika 17:9)

1. Saratovskiy gosudarstvennyy universitet im. N.G. Chernyshevskogo.

USOV. Yu.N.; SKVORTSOVA, Ye.V.; YELOVATSKAYA, L.A.; VAYSTUB, T.G.;

Pyrolysis of Stepnovskiy gas condensate. Izv. vys. ucheb. zav.; neft' i gaz 7 no.11:45-49 '64. (MIRA 18:11)

1. Saratovskiy gosudarstvennyy universitet im. N.G. Chernyshevskogo.

USOV, Yu.N.; SKVORTSOVA, Ye.V.; LYUSENIKOVA, G.G.

Conversions of C₂ - C₁₆, n-alkanes on an aluminum-nolybdenum oxide catalyst. Refteknimia 5 no.6:850-855 N-D '65.

(MIRA 19:2)

1. Saratovskiy gosudarstvennyy universitet imeni Chernysnevskogo. Submitted Feb. 15, 1965.

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9.6000 (1040, 1159)

S/120/61/000/003/028/041 E095/E135

AUTHORS: Vorob'yev

Vorob'yev, G.A., Mesyats, G.A., and Usov, Yu.P.

TITLE:

Generator of single high voltage pulses of

nanosecond duration

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No. 3, pp. 165-166

TEXT:

20 kV pulses of nanosecond duration are produced by discharging 5µF capacitor through a 1.5 m of coaxial cable when three spark gaps break down in succession, the last breakdown occurring at an overvoltage of three times. According to earlier work of the authors this over-voltage gives a pulse with fast rise-time. The described instrument produces pulses with a rise-time of 6 nanoseconds. Pulse length can be continuously varied between 15 and 45 nanoseconds. Produced pulses are displayed on a CRT, the time-base voltage of which is derived by the same method as the pulses, the leading edge being used for deflection. Synchronisation is achieved by illumination of the time-base spark gap by discharge arc of one of the gaps in the pulse producing circuit. A second generator of pulse voltages supplies 30 kV pulses to a CRT; these pulses are locked to the main pulse. Card 1/2

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Generator of single high voltage \$\frac{27715}{5/120/61/000/003/028/041}
E095/E135

The generator is supplied from voltage doubler rectifying circuit producing 20 kV, only half of which is used for the display circuits. The pulse producing part of the instrument is supplied with the full 20 kV.

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There are 2 figures and 3 Soviet references.

ASSOCIATION: Nauchno-issledovatel'skiy institut yadernykh

issledovaniy elektroniki i avtomatiki, Tomskogo

politekhnicheskogo instituta

(Scientific Research Institute for Nuclear Researches

of Electronics and Automatics, Tomsk Polytechnical

Institute)

SUBMITTED: June 28, 1960

Card 2/2

VOROB'XEV, A.A.; VOROB'YEV, G.A.; MESYATS, G.A.; USOV, Yu.P.

PROBLEM TO COMPANY OF THE PROPERTY OF THE PROP

Spark gap commutation time. Izv.vys.ucheb.zav.; fiz. no.5:174-175 '61. (MIRA 14:10)

1. Nauchno-issledovatel'skiy institut pri Tomskom politekhnicheskom institute imeni S.M.Kirova.

(Commutation (Electricity))

33330 S/143/61/000/012/002/005 D299/D305

26.2312

Mesyeats, G.A., and Usov, Yu.P., Engineers

AUTHORS: Influence of air pressure in the spark gap on the TITLE:

parameters of a high-voltage pulse front

Izvestiya vysshikh uchebnykh zavedeniy. Energetika, PERIODICAL:

no. 12, 1961, 39 - 44

The results are given of an investigation of the effect of air pressure on the parameters of the pulse front during static breakdown. The Weizel-Rompe formula for spark resistance is used (Ref. 3: Theorie der elektrischen Lichtbögen und Funken, Leipzig, 1949). After transformations, one obtains the formula

 $t_{\phi} = 21 \frac{s_{0}^{2}}{a p U_{0}^{2}} + 2.2 \frac{L}{R_{H}}$ (6)

where $\mathbf{s}_{_{\mathbf{O}}}$ is the static breakdown distance for a voltage $\mathbf{U}_{_{\mathbf{O}}}$ and pressure p; to is the length of the pulse front. For the maximum Card 1/4

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Inflience of air pressure in the ...

curvature of the pulse front one obtains

the pulse front one obtains
$$\left(\frac{dU}{dt}\right)_{\text{max}} = \frac{27}{256} \cdot \frac{aU_0^3}{s_0^2} \cdot p \cdot [1 - \varphi(A)]. \tag{8}$$

The values of the function $\varphi(A)$ are listed in a table. From Eqs. (6) and (8) it is evident that with constant voltage Uo and fixed parameters L and RH (the load resistance) of the discharge circuit, it is possible to reduce the pulse front and increase its curvature, by increasing the pressure in the spark gap. The experimental setup is shown in a diagram. The discharger, placed in a chamber of organic glass, had spherical brass-electrodes of 20 mm diameter. All the experiments were conducted in air. It was found that to depends largely on the magnitude of the undervoltage Δ at the spark gap. The coefficient a was found to be a = 1 cm² ata/v² sec. A comparison of experimental and theoretical curves showed that Eqs. (6) and (8) give a more or less accurate description of the behavior of the pulse front parameters as a function of pressure, voltage, and inductivity of the circuit. The value of a = 3 cm2.ata/v2.sec. can

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Influence of air pressure in the ...

be used for calculating the pressure in spark gaps with voltages from several- to several tens of kilovolts. For other gases and higher voltages, further experiments are required to determine as the formula for the pulse-front length is derived on the basis of the formula for the pulse-front length is derived on the basis of Weizel-Rompe's theory. A method has been developed for study of the parameters of the nanosecond (10-9 sec) pulse front as a function of pressure. With increasing pressure, the length of the pulse of pressure. With increasing pressure, the length of the pulse front decreases and the maximum curvature increases to a limit, front decreases and the maximum curvature increases to a limit, bounded by the time constant L/RH of the discharge circuit. With L = $0.07 \cdot 10^{-6}$ H., $R_{\rm H} = 75$ ohm, p = 3 ata, one obtains a pulse with

the 2 nsec, for U = 15 kilovolt. With a change in voltage from 7 to 23 kilovolt, the changes only insignificantly. With spark-gap undervoltage, the length of the pulse front is larger than with static breakdown. The formulas for the parameters, obtained by the Weizel-Rompe theory for a = 3 cm²·ata/v²·sec, can be used for approximate computation of high-voltage nanosecond installations with spark-gap dischargers in compressed air. There are 6 figures, 2 tables and 11 references: 4 Soviet-bloc and 7 non-Soviet-bloc (including 6 translations).

Card 3/4

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Influence of air pressure in the ...

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D299/D305

ASSOCIATION:

Nauchno-issledovatel skiy institut yadernoy fiziki, elektroniki i avtomatiki pri Tonskom ordena Trudovo-go Krasnogo Znameni politekhnicheskom institut imeni S.M. Kirova (Scientific Research Institute of Nuclear Physics, Electronics and Automation at the Tomsk Order of the Red Banner of Labor Polytechnic Institute

imeni S.M. Kirov)

PRESENTED:

by Nauchnyy seminar sektora vysokovol tnykh apparatov (Scientific Seminar of the High-Voltage Apparatus De-

partment)

SUBMITTED:

January 16, 1961

Card 4/4